Title (en)

Externally applied rf for pulmonary vein isolation

Title (de)

Pulmonarvenenisolation mittels von aussen eingebrachtem RF-Feld

Title (fr)

Isolation de la veine pulmonaire par un champs RF appliqué de l'extérieur

Publication

EP 1658818 A1 20060524 (EN)

Application

EP 04257254 A 20041123

Priority

EP 04257254 A 20041123

Abstract (en)

A resonant circuit is incorporated in a stent, which implantable in a pulmonary vein using known cardiac catheterization techniques. When an external RF field is generated at the resonant frequency of the stent, RF energy is re-radiated by the stent toward electroconductive tissue in the wall of the pulmonary vein, and produces a circumferential conduction block. The stent can be made of biodegradable materials, so that it eventually is resorbed. Following an ablation procedure, the stent may be left in situ. Repeated ablation can be performed using the inserted stent until it has been determined that the desired lesions have been formed. Furthermore, the same stent can potentially be used even years after being inserted should the treated arrhythmia reoccur or a new arrhythmia develop, thereby possibly obviating the need for an invasive procedure at that future time.

IPC 8 full level

A61B 18/14 (2006.01)

CPC (source: EP)

A61B 18/1492 (2013.01); **A61B 34/20** (2016.02); A61B 2017/00044 (2013.01); A61B 2017/00867 (2013.01); A61B 2018/00375 (2013.01); A61B 2034/2051 (2016.02); A61B 2090/3975 (2016.02)

Citation (applicant)

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